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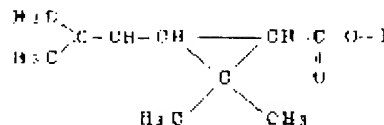
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(54) BIOCHEMICAL PRODUCTION OF OPTICALLY ACTIVE CHRYSANTHEMUM-MONOCARBOXYLIC ACID

(57)Abstract:

PURPOSE: An esterase originating from a microorganism such as *Candida* or *Penicillium* is allowed to act on (±)-chrysanthemum-monocarboxylic acid to enable optical resolution into optically active chrysanthemum monocarboxylic acid and the antipode ester with industrial advantage.

CONSTITUTION: An esterase produced by a microorganism is allowed to act on (±)-chrysanthemum-monocarboxylic acid ester. The esterase is produced by a microorganism in *Candida*, *Penicillium*, *Rhizopus*, *Trichoderma*, *Micrococcus*, *Enterobacter*, *Pediococcus*, *Chromobacterium*, *Mycobacterium*, *Brevibacterium* or *Streptomyces* and has an ability to effect asymmetric hydrolysis of (±)-chrysanthemum-monocarboxylic ester. After completion of the reaction, the product is collected by solvent extraction, column chromatography or the like.



LEGAL STATUS

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